Science 7

Lab - Homogeneous & Heterogeneous

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question**:

Is all matter that appears homogeneous actually homogeneous?

**Research**:

Our textbook reading, class discussions, and videos suggest that some homogeneous materials are actually heterogeneous.

**Hypothesis**:

Matter that appears homogeneous to the naked eye may be heterogeneous when examined with a hand lens or microscope.

**Investigation**:

Observe orange juice, 2% milk, 35% milk, and soda water with the unaided eye, hand lens (magnifying glass), and light microscope. Observe and record data in the form of drawings.

**Procedure**:

1. Listen to and understand lecture on safety & microscope use.
2. Read investigation in text.
3. Gather required materials.
4. Place 1 drop of matter on a microscope slide.
5. Place slides on white paper.
6. Observe and record results.
7. Use a hand lens to observe each of the 5 types of matter.
8. Record results.
9. Use a microscope to observe each slide at low, medium, and high power.
10. Record observations.
11. Clean and return all equipment.
12. Complete lab report.
13. Hand in lab report.

**Materials**:

* Eye dropper
* 5 slides
* 5 cover slips
* 1 hand lens
* 1 microscope
* white paper
* lab report hand out

**Data**:

O. Juice 2% 35% soda water

unaided

Hand lens

microscope

**Results**:

The hypothesis was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

I know this because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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